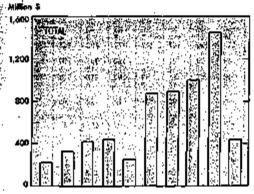
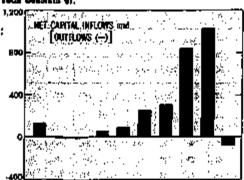
Foreign Direct Investments in the United States, 1962-71

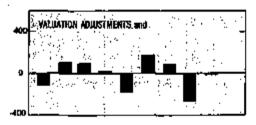
CHART 14

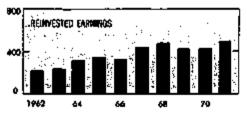
Annual Additions to Fereign Direct Investments in the United States



Total Cussists of:







73-5-M

U.S. Department of Communica, Statement of Economic Academic

 ${f T}$ HIS article presents annual data on foreign direct investments in the United States for the 1962-71 period. Breakdowns, by country and by industry, of the value of foreign direct investments, net capital inflows, earnings, reinvested earnings, and income paid out in the form of dividends, interest, and branch earnings are shown in tables 1 and 2. (These items are defined either in the text or in the Technical Note at the end of the article.) More detailed country by industry data are presented in tables 5 and This is the first time since the 1962 publication of Foreign Business Investments in the United States 1 that such detailed information has been made available. That report presented data for the 1950-61 period.

The data presented in this article are based on a sample of approximately 400 of the larger foreign-owned U.S.

firms.2 The sample has been matched against the 1959 benchmark universe of foreign direct investments in the United States, and sample data on earnings, reinvested earnings, income paid out. and the value of foreign direct investments in the United States have been blown up to universe estimates for each of the years presented. The data on net capital inflows, however, are as reported by the 400 companies. Since the benchmark is out of date, the universe estimates are subject to a significant margin of error; a new benchmark survey is planned as resources become available.

This article is in two parts. The first part summarizes trends in foreign direct investments and in earnings on such investments during the past decade. The second part presents the results of an empirical investigation of the determinants of foreign direct investment in the United States.

Highlights of the Past Decade

Growth of foreign direct investments

As chart 14 shows, the annual change in the value of the foreign direct investment position in the United States is the sum of net capital inflows, valuation adjustments of the foreign share of assets held by U.S. affiliates of foreign firms, and the foreign share of reinvested earnings of incorporated U.S. affiliates. The value of foreign

Note.—Statistical material for this article was prepared under the supervision of Julius N. Freidlin with significant contributions from Gregory G. Fouch, Cynthia L. Loitsch, Robert Boyke, and Zalic V. Warner.

 Barrinel Pizer and Zalin Warner, Fereign Business Investments in the United States, Office of Business Economics (new Bureau of Economic Analysis). 1992. direct investments in the United States increased substantially in the 1962-71 period, from \$7.4 billion at yearend 1961 to \$13.7 billion at yearend 1971. The rate of growth showed a marked increase after 1966: From yearend 1961 to yearend 1966, foreign direct investments grew an average \$332 million per year, while from yearend 1966 to yearend 1971, they grew an average \$930 million per year. These figures correspond to annually com-

Foreign-owned U.S. firms include all U.S. firms in which a foreign person or organization holds 25 percent or need of the voting stock or an equivalent interest.

pounded growth rates of 4.1 percent and 8.6 percent, respectively.

In 1971, however, the value of foreign direct investments in the United

States rose only \$484 million or 3.3 percent. This relatively small increase resulted from developments in the second and third quarters of the year,

when there was widespread anticipation that a number of leading currencies would appreciate against the dollar. As a result, there was a large outflow

Table 1.—Foreign Direct Investments in the United States, Selected Data Items, by Country and by Industry [Milions of dollars]

•	1	Value of fereign direct investments at yearend										Batslop *								
Area and industry	1962	3963	1964	1966	1000	1957	1968	L960	1970 -	1971 •	1962	1963	1984	1965	1966	1967	1088	1969	1970r	.1971
Total	7,612	7,964	8,463	8,797	9, 054	9,923	10,815	81,818	13, 270	18,704	359	456	5e4	842	696	304	544	624	854	1,110
By area:		l .	-				·	'	,		l iii									
Carreda	2,061	2, 183	2,284	2,389	2,439	2,575	2, 659	2,824	3,117	3, 339	90	214	106	136	133	146	153	122	63	218
Europe United Kingdom	5,247 2,474	5,492 2,685	5,820 2,704	6,078 2,853	6,274 2,984	7,006 3,158	7,750 3,409	\$,510 3,496	0, 554 4, 127	10, 677 1, 435	267 192	320 142	382 187	484 214	\$31 \$31	643 257	687 271	658 373	501 200	787 280
Rimpean Economic Community Belgium and Laizembourg	1, 675	1, 728	1,841	1,075	2, 144	2,405	2,790	3,306	3, 555	8,757	105	120	ш	176	199	264	285	259	240	274
Beiginm and Lazembourg Prance Germany	168 183 162 100	161 122 149	175	175 200 209	198 215 247	9728 965 318	973 258 357	309 319	235 256 600	241 215 767	2	8	12	8 7	0 10	254 23 26 30	285 22 23 43	19 35 32	24 17 24	21 21
Italy Netherlands	100 1,082	102 1,134	166 82 1,231	87 1,204	87 1, 463	36 1,506	02 1,750	617 04 1,065	100 2,151	100 3,228	-10 103	- (3 - (3 - 113	-14 120	16 -2 147	172) [10	8 177	192	185	167	55 -) 178
Other Western Europe	1,096 179	1, 070 185	1, 183 199	1,249 215	1,266	3,444	1, 552 208	1, 708 190	1, 573 216	1.686	60	89 3	74	94 13	115 18	172 14	131 13	127 S	162 12	133 10
Other	836 83	825 : 89	996 68	940 94	217 949 100	1,006	1,239	1,306 114	1, 545 119	1,682 1,682	ığ	4.9	63	71 10	89 8	102 6	112	118	135 5	liệ
Tapan	112	104	72	118	103	IOE	181	176	220	-174	-#	4	7	22	24	12	28	£L	71	0/2
Latin Americs and other Western Hemisphere	162	123	145	172	195	lõs	143	103	248	312	5	-2	6	2	8	ż	m	п	17	88
Other	87	42	42	48	43	43	43	105	131	146	(2)	1	1]	-ı	-1	ı	3	2	13	B
By industry:					' I				' :	' I	i I		ı				'		•	
Petroleum Manofesturing Trade	1, 419 2, 585 750	1, 518 3, 018 706	1,832 3,233 675	1,710 3,478 748	L, 760 3, 789 780	1,595 1,181 249	2,251 4,478 939	1, 493 0, 344 000	2,992 6,140 004	3, 113 6,748 588	198 148 10	158 197 11	172 235 41	215 303 66	214 357 43	237 880 70	263 410 81	319 414 88	215 399 119	202 502 180
Insurance	21.943	12,046	2 2 181	± 2,160	10.050	: 2, 198	12,335	2 9. 189	÷2,256	12,352	52	50	39	ю	75	88	73	76	81	186 182
Other finance	618	983 (A)	(4) 582	(°) 6922	(2) 714	316	(P) 836	(2) 639	(P) 888	033 (a)	135	, 14	112	'"7	-7 -2	123	139	-8	1 48 —6	18
											Interest, dividends, and branch carelage									
				Be	darrested	ucralogi	,				[ŀ	n ieresi	, divid	ende, a	md bee	nch de	rel ag i		
	2040	1044	net?			· -		1040			1000	ı .				- -			_	1677 .
	2962	Lines	1964	1966	1968	1967	1988	1060	1970 ·	1971 >	1982	1963	1964	, divid 1985	1966	n d bre 1967	nch tr		1970 r	1971 •
Total		1963 286	19 6 4			· -		1060	1970 ·	1971 >	1982	ı .				- -			_	1971 -
By area:	214	286	327	1966 868	1948	1967	1988		I	106	185	1963 223	1964 302	1965 288	19 66 371	1967 381	1968 289	1969 417	1970 r	628
By area: Caneda	214	286	327	1965 858 48	1948 339 50	1967	1988		434 82	187	186	1963 223 66	1964 902 68	1965 288 94	1966 371	1967 381 64	1968 259	1969 417 47	1970 r 441	628 88
By area: Canada	214 58 150	286 66 174	327 41 267	1966 368 48 286	1968 339 50 246	1967 440 80 862	1968 488 102 871	431 64 336	434 82 880	406 187 292	186 45 132	223 66 147	1964 902 63 123	1985 288 94 102	1966 371 77 294	1967 381 84 287	1968 299 44 208	1969 417 47	1970 r 441 19 368	\$28 88 466
Experience Canada Europe United Kingdom Buropen Economia Cam-	214 58 150 44	286 86 174 77	327 61 267 06	1966 353 48 285 91	339 30 246 102	1967 440 80 862 122	1968 488 102 871 208	431 84 316 107	434 82 890 134	187 292 104	186 45 132 63	223 66 147 67	902 68 123 73	1985 288 94 102 118	1965 371 77 264 125	1967 381 84 287 134	1968 289 61 208 169	1969 417 47 368 159	1970 / 441 19 368 464	\$28 88 466 238
Experience Canada Europe. United Kingdom. European Economic Community. Belgium and Luxembourg. France.	214 58 150 44 75 2	286 86 174 77 88	327 41 267 06 115	1985 858 48 285 91 141 7	1968 339 50 246	1967 440 80 852 128 148 17	1968 488 102 871 206 173	431 84 316 407 130 17	82 890 194 117	187 292 104 140 20	186 45 132	1968 223 66 147 67 28 3	902 68 123 73	1985 288 94 102	1966 371 77 294 125 35 2	1967 381 84 287 134 117 8	1968 209 64 208 169 111	1969 417 47 189 159 122 6	1970 * 441	628 88 486 238 184 3
Experience Canada Europe United Kingdom European Economia Community Belgium 4nd Luxembourg France Garmany Hely	214 58 150 44 75 2	286 174 27 86 6 8	327 327 357 36 115 6 7 11	1965 868 43 285 91 141 7 6	339 30 346 102 108 7 11	1967 440 80 862 122 148 16 16 16	1968 488 102 871 206 173 13 26	431 84 338 107 130 17 14 13 6	82 800 134 117 23 8	187 292 104 140 20 11 39	185 45 192 63 40 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1963 223 66 147 67 28 3	202 68 123 73 8 8 1	1965 268 94 102 118 25 3	1966 371 77 294 125 35 2 3 7	1967 381 84 287 134 117 8 12 14	1968 209 44 208 149 111 5	1969 417 47 169 159 112 6 (2	1970 * 441	628 88 466 238 104 10 19
Example Surveys Consider Surveys Surve	214 58 180 44 75 2 2 3 3 -11 79	286 174 77 86 6 8 8 10 -12 55	327 61 257 96 115 6 71 -11 103	1985 888 48 285 91 141 7 6 11 12 120	1948 339 50 246 102 108 7 11 1 78	1967 440 80 852 122 148 16 16 8	1968 488 102 871 206 273 170 133 34 4 102	431 84 316 107 130 17 14 13 5 81	434 820 830 134 117 23 81 81 87	187 292 104 140 20 11 30 -4 76	185 45 132 63 40 4 4 4 4 4 25	1963 223 66 147 67 28 3 4 2 2 27	1964 902 68 123 73 81 8 5 8 119	1965 268 94 102 118 25 3 2 4 (*)	1965 371 77 294 125 35 2 3 7	1967 381 84 287 134 117 8 124 2 80	1968 289 308 149 111 5 11 17 187	1969 417 47 168 159 122 6 10 3 100	1970 * 441 19 868 664 132 9 13 5	525 88 486 236 184 2 10 19 2 7
Europe. United Kingdom. European Economic Community Bushara and Luxembourg France. Garmany Hely Netherlands. Other Wastern Europe Eweden. Swicz-jand.	214 58 160 44 75 23 -11 79 40 53	286 80 174 77 86 8 8 8 13 14 8	327 61 257 96 115 6 7 11 102 47 7 77	1985 888 88 285 91 141 7 7 7 12 120 83 197	1948 339 50 246 102 108 8 7 11 1 1 78 36	1967 440 80 852 128 148 80 158 77	1968 488 301 371 206 373 103 364 41 102 90	#31 #4 318 #07 130 137 14 13 6 81 2 78	#34 #32 #30 194 117 23 #8 #8 #8 #67 DB	106 187 292 104 140 20 11 30 4 76 49	185 45 45 40 40 41 44 44 44 44 44 44 44 44 44 44 44 44	223 223 36 147 67 28 27 27 27	902 68 123 73 8 5 8 11 19	1965 268 94 102 118 35 27 (*)	1966 371 77 294 125 35 2 3 7 73 73 76	1967 381 84 287 134 117 8 12 14 2 80 46 7	1968 209 208 149 111 5 11 17 187 48 29	1969 417 47 168 159 112 6 12 101 6 6 12 101 6 6 101 6 101 6 101 101 101 101 101	1970 / 441 19 368 464 132 9 9 13 67 7 7 88	628 88 466 238 104 10 19
Europe. Canada. Europe. United Kingdom. Ruropean Economic Community. Beighum and Luxembourg. Fraces. Garmany. Italy. Netherlands. Other Western Europe. Ewade. Switzerland.	214 55 150 44 75 22 2 3 -11 79 40 53	286 174 77 86 6 8 6 -19 55 24 6	327 40 267 06 116 7 111 102 47 27 37	1985 868 48 285 91 141 7 6 11 12 120 63 197 8	1968 339 246 102 108 37 11 178 38 10 29 6	1967 440 80 852 128 148 157 16 158 27 17 4	1968 488 371 206 273 206 109 36 4 102 90 41 81	631 84 338 107 130 177 14 130 81 81 81 81	434 82 880 134 117 23 8 18 18 18 18 18 18 18 18 18	187 292 104 140 201 11 30 75 49	185 45 132 63 40 41 44 44 43 25	1963 223 56 147 67 28 3 4 22 27	1964 902 68 123 73 81 8 5 8 119	1965 268 94 102 118 35 32 2 (2)	1986 371 77 294 125 35 2 3 7 73 73 74 64	1967 381 84 287 134 117 8 124 2 80	1068 209 208 149 111 5 11 17 17 187 487 209 2	1969 417 47 188 199 192 6 19 101 67 6	1970 / 441 29 368 664 132 9 9 13 66 67	\$25 88 446 238 194 3 10 19 5 97
Europe. United Kingdom. European Zeonomic Community. Bolgium and Luxembourg. France. Germany. Italy. Netherlands. Other Western Europe. Ewiden. Ewiden. Ewiden. Swiden.	214 55 150 44 75 2 2 3 9 -11 79 40 3 3 3 4	286 174 77 88 6 1 18 5 5 14 4 5 2 2	327 01 267 06 116 6 7 11 -11 102 47 7 3	1965 868 48 285 91 141 7 6 111 2 120 53 10 87 8	1948 339 346 102 106 8 7 11 178 38 10 29 6	1967 440 80 862 128 148 16 82 7 7 14 7	1968 488 371 206 273 179 36 4 109 90 4 81 18	431 84 316 407 130 17 14 13 81 81 78 (*)	434 82 880 134 117 23 816 67 08 4 54	187 292 104 190 20 11 39 -4 76 49	185 45 45 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41	223 56 147 67 28 3 27 27	302 63 123 73 11 25 26 (*)	1965 298 94 102 118 35 3 2 4 (*) 30 42 34 5	1965 371 77 294 125 35 2 3 7 7 7 64 2 7	1967 381 84 287 134 117 12 14 2 80 45 7 36 3 8	1068 209 208 169 111 5 11 87 48 20 20 15	1969 417 47 47 188 199 112 62 101 67 67 64 40 2	1970 * 441	628 88 486 236 194 3 10 19 5 97 96 11 183 2
Europe. United Kingdom Buropen Economia Community Businum and Luxembourg France. Garmany Italy Netherlands. Other Western Europe Sweden. Swicz-jand Other. Japan Latin America and other Western Hemisphere.	214 58 150 44 75 22 2 3 -11 79 40 5 34 8 3	286 174 77 86 9 9 10 -12 55	327 01 267 06 116 6 7 111 102 47 87 3	1965 868 48 286 91 141 7 7 7 12 120 100 107 83 14	1968 339 246 102 108 37 11 178 38 10 29 6	1967 440 80 852 128 148 157 16 158 27 17 4	1968 488 301 871 206 173 364 4 102 90 41 81 81 81 81 81 81 81 81 81 81 81 81 81	431 84 316 107 130 17, 13 5 81 28 (*)	494 820 880 194 117 228 816 67 08 4 54	187 292 104 190 201 11 39 -4 49 48 1 1 53	185 45 40 40 41 44 44 44 44 44 44 44 44 44 44 44 44	233 36 147 67 28 22 27 37	302 63 123 73 119 20 (7)	1965 298 94 102 118 35 32 2 30 47 30 47 30 47 5 5	1986 371 77 294 125 35 2 3 7 73 73 74 2	1967 381 84 287 134 117 8 12 14 2 80 46 7	1068 209 208 149 111 5 11 17 17 187 487 209 2	1969 417 47 159 159 100 31 100 67 67 68 49 2	1970 / 4411 29 368 464 132 2 9 9 13 5 66 67 7 7 7 7 7 8 2 2 17	828 466 236 134 10 19 5 97 96 11 183 2
Europe. United Eingdom. European Zeonomie Community. Bolgium and Luxembourg. France. Germany. Italy. Netherlands. Other Western Europe. Ewiden. Switzerjand. Other. Japan.	214 55 150 44 75 2 2 3 9 -11 79 40 3 3 3 4	286 174 77 88 6 1 18 5 5 14 4 5 2 2	327 01 267 06 116 6 7 11 -11 102 47 7 3	1965 868 48 285 91 141 7 6 111 2 120 53 10 87 8	1948 339 346 102 106 8 7 11 178 38 10 29 6	1967 440 80 862 128 148 16 82 7 7 14 7	1968 488 371 206 273 179 36 4 109 90 4 81 18	431 84 316 407 130 17 14 13 81 81 78 (*)	434 82 880 134 117 23 816 67 08 4 54	187 292 104 190 20 11 39 -4 76 49	185 45 45 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41	223 56 147 67 28 3 27 27	302 63 123 73 11 25 26 (*)	1965 298 94 102 118 35 3 2 4 (*) 30 42 34 5	1966 371 77 294 125 35 7 73 73 74 64 2 2	1967 381 84 287 134 117 81 12 146 2 80 46 3 8	1968 286 60 208 146 51 7 1 1 87 48 7 7 30 2 2 15	1969 417 47 163 159 122 6 6 12 101 87 64 40 2 2	1970 * 441	828 466 236 246 10 19 10 19 10 19 10 19 11 18 18 22 40
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Revised. Preliminary. "Less than 8500,000 (#).

1. "Enrings" represents the fireign thate in corporate and branch earnings; "interest, dividends, and branch earnings" is the amount of earnings distributed after withholding

oxes. 2. Includes market revaluation of securities held by insurance companies.

Included in "insurance."
 Inlerest paid by agency banks in the United States to foreign home offices has been excluded from direct investment totals.

from the United States of foreigners' direct investment capital to Japan and a smaller but nevertheless substantial flow to Switzerland. The capital outflow to Japanese parent firms arose from prepayment for imports by their U.S. trading company affiliates, while the flow to Switzerland apparently

took the form of an accelerated repayment of credit extended by Swiss parents of two U.S. manufacturing affiliates. Leaving aside these two

Table 2.—Not Capital Inflows to Foreign Direct Investments in the United States, by Country and by Industry

[Millions of dollars; ontflows (-)] 1963 1084 1983 1065 1060 Area and industry New New New New Now Total Other Total Total Other Total Invest ments Other in vasi Other Total Other roente menta 132 38 56 161 71 -75 -156 -5 57 100 -5 -44 86 23 36 43 32 30 ð 17 -23 Canada....... 44 11 88 **—15** 3 25 Europe
United Kingdom
European Economic Community
Beights and Laxembourg
Franco
Germany 98 86 42 -48 -66 10 -7 883272388 -2188 80 88 14 82 19 46 3 7 Sulfactor. -70 -40 -18 -18 -11 -10 B1 12 43 00 23 67 10 8 28 11 20 4 2 2 2 10 5 8 -32 -10 -10 -50 -5 -0 10 1 26 16 3i -52 20 20 16 (*) -10 3 (*) (*) (*) (*) (*) (*) (*) 28 7 24 -3 Other Western Europe..... 3 20 12 10 2 16 -3 22 13 d 0 L 8 () 3 20 ď (*) (*) -3 1 24 24 21 **—3**1 -28 3 -40 #3 2 81 -24 --10 -27 17 27 24 -37 24 Latin America and other Weston: Hemisphere. 3 ~82 6 . 15 26 17 17 -34 -28 -6 Other_____ -1 10 -6 16 I -ı **—**Б 1 ı By industry: Pstraletim.
Manufactiving.
Traile -20 14 79 20 63 8 -55 -53 -56 15 -69 -63 36 20 - 44 42 - 61 200 A 4 40 1 75 10 Ÿ -43 -43 5i -16 -2 20 8 35 5 -37 -20 -37 ŧ, -18 đб ì '6 16 0 23 Ή 80 Other finance. 1067 1068 1089 1970 • 1971 • New New Total Total Other Total Other Total Total Ойнег iovest Other Other investinvest ments invost ments Mignita 25] 118 788 -#22 133 319 428 -117 1.656 234 -67 255 Br arco: Cenade..... 4 10 -10 **--28** 40 -75 243 24 188 228 60 179 25 8 79 Europe
United Kingdom \$50 85 96 21 뱱 297 114 303 100 -8 5 550 88 350 68 191 80 629 518 31 -19 229 201 917 119 European Economic Community

Belgium and Lexenibourg

France

Germany 213 25 10 34 2 22 25 10 -18 2 3 383 10 17 41 712342991 190 214 110 130 116 18 35 27 27 -37 43 -17 18 18 56 -8 12 (*) 62 1122023 'n ï -#6 -% 95 84 201 125 134 Hely-Netherlands 107 11 20 5 138 106 33 (*) чi Other Western Buropo...... 72880 34 **28** -20 -74 51 -6 101 **13** 31 26 -26 31 -19 2 12 1 1 -10 10 50 42 -9 40 2 24 Swedner. Gwitzaciand 107 "帮] 4 24 aj B 27 Ochor -9 18 -20 DO 74 -34 35 -60 -156 111 -476 87 Latin America and other Western Hemisphere -5 -10 -10 п B 3 50 36 23 00 å -1 -9 (*) -3 Ġ. 62 (*) 3 2 2 18 11 \$ By industry: Petrologia.
Manufacturing.
Trada. 457 220 24 212 805 26 ઓં –હ -31 (neurones, Other funance) 05 -1 44 -1 88 81 -13 # uó B 16 Other.

^{&#}x27; Revised. P Preliminary. *Loss than \$500,000 (±).

1. "Non-investments" consists of the first reported capital inflow to establish or acquire a new company or operation in the United States and the cost of acquisition of additional

shares of existing companies.

Source: U.S. Department of Commerce, Bureau of Economic Ambysis.

sets of transactions (totaling \$640 million), the value of foreign direct investments in the United States would have risen 8.1 percent in 1971. Preliminary data suggests that the rate of growth of foreign direct investments in 1972 was similar to the average growth rate in the 1967-71 period.

One factor encouraging the acceleration in direct investment here in recent years was probably the growth of the Eurodollar market. Foreign firms that are discouraged by exchange controls from using national funds to invest abroad can tap the unregulated Eurodollar market for financing such investments.

Foreign investment here may have also been encouraged by the 1967 action of the Securities and Exchange Commission whereby it modified its rules regarding financial reporting of foreign-owned U.S. firms. The new regulations allow such firms' accounting practices to deviate from those com-

monly employed by U.S. firms in order to mesh better with those of their foreign parents.

Another factor is the merger movement among European firms. Given the scale of the U.S. economy, the size of the required investments in the United States is large by European standards. This problem appears to have been alleviated in the latter part of the 1960's by a merger movement among Western European firms. The investments related to this movement occurred primarily in the U.S. chemical, steel, and fabricated metals industries.

In addition to these institutional factors, the empirical results presented in the second part of this article suggest that the expanding U.S. market has had a substantial impact on the size of the annual additions to foreign direct investments in the United States.

It might be noted that, with a few exceptions, foreign-owned U.S. firms are small by U.S. standards and no U.S. industry is dominated by such firms. They do, however, have a significant position in a few industries (e.g., pharmaceuticals and nickel production). In addition, a very common characteristic is that the foreign ownership share in an affiliate is large, often reaching 95 percent.

Country of ownership

Despite the acceleration in investment here by foreigners, there has been little change over the 1962-71 period in the distribution of foreign direct investments by country of ownership (chart 15). European countries continue to hold the major share of foreign direct investments here, accounting for 69 percent of the total at yearend 1962 and for 73 percent at yearend 1971.

The United Kingdom has traditionally had the largest holdings in U.S. firms (\$4.4 billion in 1971). However, the industry distribution of those investments has changed considerably. In 1962, the largest British direct investments were in insurance (mainly fire, marine, and onsualty), but British investments in manufacturing and petroleum firms are now considerably larger than their investments in insurance firms (see table 5).

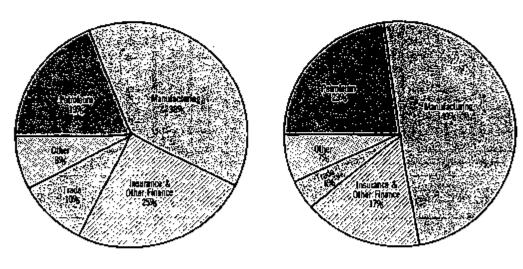
CHART 15

Distribution of Foreign Direct Investments in the United States, 1982 and 1971

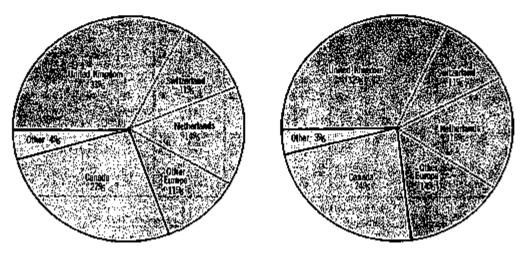
1962 (\$7,812 million)

1971 (\$13,704 million)

BY MAJOR INDUSTRY OF AFFILIATE



BY COUNTRY OF OWNERSHIP



U.S. Department of Constitute, Bureau of Generalis Maliyan

35.2 K

Canadian direct investments in the United States (\$3.3 billion in 1971) have ranked next in size to those of the United Kingdom. A large part of that investment has been in manufacturing (\$2.0 billion in 1971), but investment in the "other industry" category has also been significant. In fact, the largest foreign direct investment in U.S. utilities arises from the extension into the United States of two major Canadian railroads.

The Netherlands and Switzerland are the two continental European countries with sizable positions in U.S. firms. The largest Dutch investments have been in the petroleum industry, primarily consisting of an interest (shared by the British) in a major U.S. oil company. Swiss investments are largely in manufacturing, especially in pharmaceuticals and food products.

Industry of investment

The foreign direct investment position in U.S. manufacturing (\$6.7 billion at yearend 1971) greatly exceeds that in any other industry and manufacturing's share of total investment has grown significantly during the decade, from 38 percent in 1962 to 49 percent in 1971 (chart 15). As with total foreign direct investment, the investment in manufacturing has grown more rapidly in recent years than earlier in the 1960's. Petroleum investments have also grown substantially in the past decade and are now larger than those in the "insurance and other finance" category, which was the second largest in 1962. The fact that many States limit or prohibit foreign ownership in banks has probably contributed to the decline in the share of total investment represented by "insurance and other finance". Trading companies' share of total investment has also declined over the decade. Such affiliates provide marketing outlets in the United States for goods produced by their foreign parents. Most of the decline shown in chart 15 reflected developments in 1971 when there was a sharp decline in trading company investments due to the activities of Japanese-owned trading companies as noted earlier. However, there was a significant erosion before 1971 in the trading companies' share of total investment.

Components of annual additions to foreign direct investment

The two main components of the annual addition to the foreign direct investment position in U.S. enterprises have been net capital inflows and reinvested earnings; valuation adjustments have generally been small. Of the approximately \$6.3 billion added to the value of foreign direct investment in the years 1962 through 1971, \$2.6 billion came from net capital inflows while nearly \$3.8 billion was reinvested earnings. The value of the foreign share of U.S. firms' assets was adjusted downward by only \$100 million net during the decade.

Reinvested earnings are defined to include only the foreign share of undistributed earnings of incorporated affiliates. All earnings of branches are treated in the U.S. balance of payments accounts as if they were remitted to the parent as income and any actual reinvestment in the United States is treated as an offsetting capital inflow. This treatment tends to understate the importance of reinvestment. For example, if branches in 1971 reinvested the same proportion of earnings as incorporated affiliates did, total reinvestment including that of branches would have been \$100 million greater than the \$498 million reported by incorporated affiliates.

Chart 14 shows that reinvested earnings have been a much more stable component of the annual addi-

tions to foreign direct investment than have net capital inflows, particularly in the 1967-71 period. (Net capital inflows are the sum of new investments. liquidations, and changes in intercompany accounts.) Two factors are principally responsible for the instability of net capital inflows: (1) balances on intercompany accounts-which primarily show the indebtedness of the affiliates to their parents or vice versa-are affected by expectations of changes in exchange rates, as evidenced by the Japanese trading company activities of 1971; and (2) new investments tend to be lumpy and discontinuous. For example, in 1970, when the total flow of new investments was \$796 million, a single transaction involving a U.S. and a British petroleum firm accounted for almost \$400 million of the total. In 1971, there was no comparable transaction and the total flow of new investments decreased to \$255 million. This also contributed to the smallness of the 1971 increase in the value of foreign direct investments in the United States, as mentioned above.

Since 1962 there has been a steady decline in the share of earnings reinvested by foreign-owned U.S. petroleum firms, largely reflecting the use by a foreign parent company of the earnings of one U.S. affiliate to finance production facilities outside the United States. Manufacturing firms, on the other hand, repatriated a significantly smaller share of earnings in the 1967-71 period than in 1962-66 and this contributed to the rapid growth of manufacturing investments in recent years.

The Return on Foreign Direct Investments

TABLE 3 gives alternative measures of the return on foreign direct investments in the United States. Lines A through F give the basic components used to calculate the various measures; panel G gives the dollar return on the basis of each of the four measures; and panel H gives the percentage rates of return, based on the value of the foreign direct investment position at the beginning of the year, for three of the measures. The following paragraphs deal with the components one by one. Definitions are given in the text or in the Technical Note at the end of this article.

Net earnings of foreign-owned U.S. branches were \$232 million in 1971, an increase of \$111 million from 1970 (line A). Insurance branches accounted

for \$104 million of the increase.

The foreign direct investors' receipts of common stock dividends from incorporated U.S. affiliates were \$349 million in 1971, an increase of \$69 million from 1970 (line B). Manufacturing affiliates were, as usual, the largest source of dividends. U.S. withholding taxes on dividends in 1971 were \$29 million (line C). These are taxes paid by incorporated U.S. affiliates to the U.S. Government in connection with dividends on common stock paid to foreign direct investors. The withholding tax rate depends on the tax treaty with the country of the foreign parent.

The foreign direct investors' share of the reinvested earnings of incorporated U.S. affiliates was \$498 million in 1971, up from \$434 million in 1970 (line D). The sharp rise in earnings of foreign-owned U.S. corporations made the increase possible.

Interest received by direct investors from their U.S. affiliates was \$48 million in 1971 (line E).

CHART 16

72-7

Return on Foreign Direct Investments in the United States

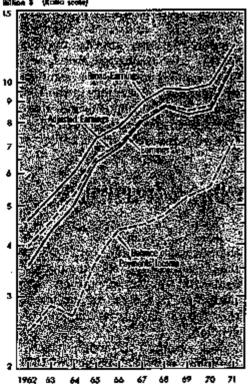


Table 3.—Alternative Measures of Return on Foreign Direct Investments in the United States, All Areas

(Alliform of dollars or percent)

Item	1962	1968	1064	1965	1965	1967	1968	1960	1970 -	1971 >
A. Branch carnings B. Dividends C. U.S. withholding taxes. D. Reinvested carnings E. Interest F. Royaltier and feet. G. Mesaures of return, dellars:	214 n-a. 67	64 126 280 280 52 61	#6 122 0 827 84 66	55 214 16 356 29 67	94 243 18 329 33 54	113 284 17 440 35	110 240 19 488 28 90	194 281 20 421 12 101	221 230 19 434 40 111	282 349 29 498 48
Earnlogs Adjusted carridgs 2 Broad carridgs 1 Balance of payments income 4. M. Messures of resure, as a percent of forest investment position at beginning of year:	369 399 456 243	200 M	504 520 698 268	642 656 723 266	808 710 774 434	804 821 884 443	888 876 966 467	814 848 949 618	854 875 988 552	1,110 1,122 1,246 719
Adjusted earnings Broad comings Balance of payments income.	5.4 6.2 3.3	8.0 6.8 2.7	6.7 7.8 3.4	7.8 8.6 4.4	8.1 8.8 4.0	9.1 9.8 4.9	8.8 9.6 4.7	7.8 8.8 4.8	7.4 8.8 4.7	8.4 0.2 5.4

Prelimiuary. n.a. Not available.
 elerred dividends, which in 1971 totaled #2 million.

tion of items A-F, see the Technical Note.

Foreign direct investment royalties and fees are net payments by U.S. affiliates to foreign direct investors which take the form of: (1) royalties, license fees, and rentals, which include parent company charges to cover a portion of the funds spent by the parent firm for research and development of new products and processes, and rental fees for the use of tangible property; or (2) management fees and service charges, which represent an allocation of administrative and other expenses incurred by parent firms on behalf of their affiliates. These figures are net of any payments by foreign parents to the U.S. affiliates. Table 4 shows data on royalties and fees on an area basis. Foreign direct investment royalties and fees were \$94 million in 1971, down from \$111 million in 1970 (line B, table 3). Historically, the largest share of royalties and fees has been paid to Canadian parent firms. Parents of manufacturing affiliates receive most of the royalties and fees.

Alternative measures of return

Four useful measures of the dollar return on foreign direct investment, reflecting alternative analytic viewpoints, can be obtained from different combinations of the components in lines A through F. These returns are shown in panel G of table 3 and in chart 16, and corresponding rates of return are shown in panel H.

The earnings measure of return.

which reflects the viewpoint of the affiliates, is the sum of branch earnings. dividends, withholding taxes, and reinvested earnings of incorporated affiliates (lines A+B+C+D). Payments of interest and of royalties and fees are excluded because they are costs to the affiliates.

Earnings of foreign-owned U.S. firms increased \$256 million, or 30 percent, to \$1,110 million in 1971. The earnings of Canadian-owned manufacturing firms and British-owned insurance firms were primarily responsible for the rise, increasing \$80 million and \$57 million, respectively. Earnings of foreign-owned U.S. corporations were up 20 percent in 1971, while earnings of all U.S. corporations were up only 14 percent. A word of caution in drawing comparisons: The earnings figure for foreignowned U.S. corporations is the foreign share in these corporations' earnings; therefore, earnings of foreign-owned U.S. corporations will rise if the foreign share of equity in these corporations increases during the years.

The adjusted earnings measure focuses on the return realized by the parent firm. It is equal to earnings of affiliates, as defined above, plus interest paid to parents less withholding taxes paid to the U.S. Government on common stock dividends (lines A+B+D+E). Interest is included because it represents a return on loans made by the parent to the affiliate and such loans are included in the value of foreign direct investments

Table 4.—Payments of Royalties and Fees on Foreign Direct Investments in the United States, by Arca of Ownership

[Atlitions of deliters]

	Total	Cam- ada	United Fing- dom	Burope except United King- dom	Other
1982 1963 1964	67 61 68 67	22 40 25 88	10 9 11 11	14 12 19 17] j
1966. 1967. 1968.	64 63 8 8 191	41. 47. 88	12 11 21 25	10 8 9 16	1 2 4
1970' 1971 P	111 #4	62 4	19 11	91 15	7

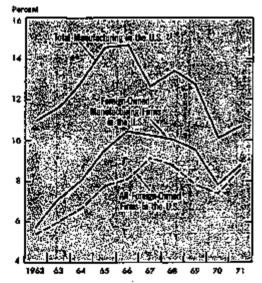
^{*} Revised. Preliminary.

Source: U.S. Department of Commerce, Bureau of Economic Applysis.

in the United States. Interest paid by foreign-owned U.S. firms on loans from their parents has always been small; therefore, the difference between earnings and adjusted earnings has been slight. Withholding taxes are excluded since only the dividends actually received represent a benefit to parent firms. In 1971 adjusted earnings were \$1,122 million.

CHART 17

Rates of Return on Foreign Direct Investments in the United States and on Total Manufacturing in the United States



- Rote of cause on Seeign direct investments is: adjusted exestings divided by back value of beginning or your. Rate of return on total actual actual at the United States in office-ion learned divided by any worth at beginning of your, as comparted by Piver Nethonal City Bank of New York.
- 2. Excluding patrolaum.

The broad earnings concept is the most complete measure of the benefits received by foreign direct investors from their U.S. sfilliates. It is calculated by adding royalties and fees to adjusted earnings (lines A+B+D+E+F). In 1971, broad earnings totaled \$1,216 million.

The balance of payments income measure (lines A+B+E+F) focuses on other nations' returns on direct investments in the United States as recorded in the U.S. balance of payments accounts. Reinvested earnings are thus excluded. (A revision of the U.S. balance of payments accounting framework that would include reinvested earnings is being considered.) From the balance of payments viewpoint, the return to other countries on foreign direct investments in the United States was \$718 million in 1971.

Chart 16 indicates that all the alternative measures of the dollar return on foreign direct investments in the United States increased substantially over the 1962-71 period. The increase was sharpest on the earnings basis and slowest on the broad earnings basis.

Chart 17 presents rates of return from all foreign-owned U.S. firms, foreign-owned U.S. manufacturing

firms, and all U.S. manufacturing firms. The rate of return from all U.S. manufacturing firms (as computed by the First National City Bank of New York) is a return on net worth: adjusted earnings, the most comparable measure, is used for calculating rates of return from all foreign-owned U.S. firms and from foreign-owned U.S. manufacturing firms.3 The chart indicates that the rates of return from foreign-owned U.S. manufacturing firms and from all U.S. manufacturing firms are both related to the U.S. business cycle. While the rate of return from all U.S. manufacturing firms has always been higher than that from foreignowned U.S. manufacturing firms, the gap has narrowed substantially in recent years (to only 2.0 percent in 1971). This probably reflects the fact that many of the foreign direct investments in manufacturing, which were started in the late 1950's, are only now becoming seasoned investments. The rate of return from all foreignowned U.S. firms has always been less than that from foreign-owned U.S. manufacturing firms since the generally low rates of return on foreignowned U.S. banks and insurance firms have pulled down the all-industry rate of return.

The Determinants of Foreign Direct Investment in the United States

THIS section of the article presents the results of an investigation of three possible determinants of foreign direct investment in the United States: (1) the size of the host country's market (the host country being that in which the investment takes place); (2) the market's rate of growth; and (3) the level of tariffs in the host country. Our investigation was limited to these three factors, although it is recognized that other factors—such as rates of return, wage differentials, transportation costs, the supply of available funds, and differential rates of inflation -may also have influenced foreign investment.

It was hypothesized that the three

factors are each positively related to foreign direct investment in the United States. The evidence indicated that only the size-of-market hypothesis can be supported statistically. In this respect, the findings presented here are similar to those of a recent study of the determinants of U.S. direct investment in the Common Market.

^{3.} The latter two rates of return are ruturns on the book value of the foreign parents' position in their actiliates, which is the sum of the parents' share in the net worth of the actiliates and any belances on intercompany accounts finding lang-term debt). Since U.S. actiliates are generally not debtors with respect to their foreign parents, rates of return calculated on the basis of book value are probably lower than those calculated on the basis of net worth.

^{4.} A. E. Scaperlands and L. T. Matter, "The Determinants of U.S. Direct investment in the E. R.C.," American Economic Resies, Vol. Lit. (September 1969), pp. 558-568. The investigation of foreign direct investment in the United States for which results are presented here followed the general line of attack taken by Scaperlands and Matter.

Table 5.—Selected Data on Foreign Direct Investments

, 		. —— .						·· <u> </u>		[MM _{lon}	,
-	Va	los of foreign	direct investo	nents at years	nd			Estatogs			Ţ
- Arsa and year	Total	Petrolsam	Manufac- turing	Insurance and other discuse	Other	Total	Petroleum	Manufae- turing	Instruce and other finance	Othez	1
All areas: 1962	7, \$12 7, 944 8, 963 8, 993 9, 993 10, 818 11, 818 18, 270 18, 704	1, 419 1, 513 1, 612 1, 716 1, 746 1, 746 2, 251 2, 251 2, 252 2, 113	2,855 3,712 3,713 4,710 4,181 4,344 6,140 8,748	1,943 2,945 2,150 2,160	1, 845 1, 359 1, 858 1, 441 1, 443 1, 664 1, 774 1, 792 1, 881 1, 491	350 426 604 642 693 894 888 881 854 1, 110	125 158 172 218 247 263 219 215 203	146 197 208 373 387 380 410 414 389 912	87 84 51 83 108 111 110 127 247	10 16 46 72 41 79 84 82 113	
Canadat 1962 1963 1964 1964 1966 1967 1966 1988 1997 1971 -	2, 064 2, 183 2, 284 2, 388 2, 575 2, 659 2, 534 3, 117 3, 329	212 218 205 208 98 100 152 180 207	1, 016 1, 003 1, 129 1, 219 1, 342 1, 207 1, 413 1, 644 1, 830 2, 025	289 837 382 870 386 854 376 325 304 305	568 570 568 591 725 770 733 767 902	90 114 199 186 193 146 152 122 218	16 25 25 25 20 20 21 21 22	ชื่อหล รหร ลล	18 27 19 30 21 23 29 - 19 28	18 -18 -6 8 11 3 22 21	
Edrape: Third Kingdom: 1862	2, 474 2, 685 2, 798 2, 852 2, 854 3, 199 2, 996 4, 127 4, 435	416 466 426 511 558 612 748 829 1, 220 1, 273	782 779 812 829 906 1,006 1,078 1,176 1,334 1,615	1, 023 1, 085 1, 154 1, 176 1, 075 1, 169 1, 230 1, 141 1, 141 1, 189	278 321 322 325 345 345 345 248 276	102 142 167 214 224 257 271 272 289 350	35 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1	35 94 70 95 160 161 123 144 149	25 - 24 - 21 - 23 - 45 - 47 - 41 - 50 - 108	8 0 17 24 18 18 17 18	
Netherlandu: 1962 1968 1968 1968 1969 1967 1969 1969 1969 1970 1971	1, 082 1, 134 1, 231 1, 304 1, 468 1, 760 1, 961 2, 131 2, 225	736 772 842 887 888 1, 683 1, 215 1, 275 1, 211	244 275 218 328 336 426 582 707	43 35 80 80 80 80 81 54 88 41	55 64 59 60 67 55 100 130	108 113 120 147 157 192 185 167 176	73 84 84 100 107 118 139 121 160 163	经收款贷款 计对目的	1 1 2 2 4 4 4 5	T) 2 3 3 1 1 2 2 2	
Switzerland: 1962 1963 1964 1966 1966 1967 1969 1977 1969	836 825 896 940 940 1,096 1,228 1,385 1,655		464 477 630 880 613 7,44 853 1,147 1,147	280 307 308 309 309 331 328 331 375	43 41 42 47 43 44 46 47 55	58 49 53 71 89 102 113 126 118		¥ ⁴ 각각동없ଊ동건됐	16 1 6 6 11 24 26 34 33	1 2 4 1 2 2 2 3	
Other Europa: " 1962	865 897 997 990 1,050 1,245 1,853 1,731 1,881	51 54 80 90 126 126 248 245 251	333 347 440 438 829 674 733 941 1,023	307 212 212 300 229 331 245 285 288	261 246 251 251 251 252 367 367 368 558	10 16 82 65 10 11 88 11 12	5 12 13 19 24 24 18 12	~ # \$ \$ \$ \$ \$ \$ \$ \$	6 10 3 5 6 11 8 9 17	5 13 16 17 28 89 29 33 21	
	115 104 72 115 103 108 131 176 229 —174	717	11 14 14 14 14 14 14 14 14 14 14 14 14 1	***************************************	44 33 40 91 19 53 70 120 -216	34 722 112 20 41 71 91	***************************************	**************************************	(*) 2 1 1 8 9 14	(*) 20 20 9 8 27 30 54 61	
Other areas: 1962 1964 1964 1965 1966 1967 1967 1969 1969 1970 1971 P	190 185 187 214 288 225 226 296 870 461	- M 150 公司 110	20 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	45 48 53 51 51 51 51 50 51	118 102 105 104 109 112 110 47 114 131	6-9000N M 78-4		333 111	1 4 3 2 1 1 12 31 81	4 5 5 3 1 2	

[&]quot;* Excluding United Kingdom, Notherlands, and Switzerland. See footnoies to table i.

in the United States, Country by Industry Detail

of dollars]

ot (totans)		Re	invested earnin	vested earnings Interest, dividends, and branch carnings								
Arts and year	Total	Petrolsum	Manufac- turing	Insurance and other finance	Other	Total	Petroleum	Manutacy turing	Insurance and other finance	Other		
Attarea: 1962 1968 3984 1965 1966 1967 1969 1970 1971 2	214 226 227 268 349 440 488 431 434 434	116 188 124 134 137 143 90 85 78	88 86 128 129 200 235 236 276 281 281	-2 6 6 -3 10 13 14 26	12 7 31 38 20 38 51 51 78	185 225 225 220 271 381 386 417 441 623	14 177 18 26 81 100 124 119 116	74 122 106 107 180 180 187 188 181 181	74, 62, 51, 52, 98, 105, 101, 111, 121, 224,	21 22 28 45 33 64 41 83 28		
Cunnafin: 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1968. 1967. 1971.2.	56 66 61 58 80 80 102 25 25 157	14 18 14 11 11 7 9 4	46 46 46 72 88 74 31	1 2 4 4 5 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-2 -3 -8 -8 -7 -5 16	88 1999 1999 1999 1999	58 11 22 24 4 9	11921222337	19 25 18 22 18 24 10 - 14	12 12 18 18 14 16 13 17		
Emage: United Elagidem: 1962	44 25 86 102 108 108 105	26 44 66 67 42 46 47 10 20 20	7 28 16 50 57 55 61	() () () ()	26 8 2 11 5 8 8	68 67 73 116 124 146 169 169 236	22 4 1 24 77 77 49 41	30 37 38 45 45 50 53 54 78	27 24 40 47 41 46 46 104	4 10 16 18 12 12 11 13		
Netherlands: 1982: 1983: 1964: 1965: 1966: 1967: 1968: 1968: 1970 "	**************************************	67 76 78 96 61 62 63 51 20 25	13- 14- 23- 24- 18- 21- 31- 29- 36- 38-	112 (2) -28	(*) -4 1 -1 2 1	257 262 278 278 278 277 277	7 6 2 4 6 6 5 5 6 7 6 7 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1	15 14 20 23 26 26 26 34 31	24.20 14.104.41	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Switzerland: 1962 1963 1964 1966 1968 1967 1968 1969 1970 7	## 877 77371 1780 48		82 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	33330	222 3122134	次字对 其 3 5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		9 29 22 23 24 18 25 49	16 1 1 5 11 24 25 35 33	(?) i i		
Ctker Burepe:** 1052. 1953. 1954. 1955. 1956. 1967. 1968. 1969. 1970 7. 1871 *	1 3 22 28 42 42 65 20 52 58 65	3 7 10 10 17 19 20 18 12	-3 -20 4 17 19 28 28 10 10	e in	4 10 10 10 12 27 17 22 -3	17 14 14 11 21 48 20 45 50	1 1 2 2 2 3 4	8 6 4 16 9 25 13 16 17	7 5 5 7 5 8 8 8 18 17	22 8 76 11 11 10 16		
Tepm: [902 1905 1905 1905 1905 1905 1905 1905 1907 190	- 4 2 8 14 8 7 13 29 54 53		(*) -4 (*) -4 (*) 1 1 -1 -1	(*) 12 23 4 5	(*) 2 0 14 7 5 12 28 40 48	10 10 10 15 15 17 40		2 5 5 5 4 4 4	(*) 1 (*) 1 5 7 20 19	1 7 2 3 4 -2 3 16		
Other sivens: 1942 1942 1943 1464 1945 1946 1947 1948 1947 1948 1970 1970	-6 (*) 6 1 7 (*) 9		11-21-42-50-0	00000000 T.		2 4 4 3 1 1 1 1 23 20 20		2002	3 4 5 2 1 1 12 22 27	(*) (*) (*)		

Table 6.—Net Capital Inflows to Foreign Direct Investments in the

		(Militons of d										of dollars;						
.		All la	dustries			Peti	musion			Mamuja	rturing		Ina	Insurance and other for				
Ares and year	Total	New forest- ments	Lings- dutions	Inter- company secounts	Total	New Invest- ments	Liqui- dettors	Inter- company economy	Total	New invest- ments	Lingi- dations	Inter- company accounts	Total	New Invest- ments	Liqui- dations	Inter- company accounts		
All areas: 1942. 1943. 1944. 1944. 1944. 1945. 1947. 1948. 1949. 1970.	132 -5 -6 87 261 319 832 1,030 -67	38 151 71 100 88 188 426 508 796 256	-26 -77 -17 -17 -195 -50 -108 -17 -28	121 -77 -68 -87 141 188 1 811 942 -299	-22 -44 -55 -88 -94 8 281 142 414	20 1 (*) 20,2 20,2 36,457 4	173851 155 1	- 17 → 64 12 13 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19	41 42 89 132 111 138 -22 467 446 287	27 42 45 75 67 84 81 401 205	-14 -14 -15 -15 -18 -18 -18 -18 -18	20 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	47 (7) 83 - 87 116 62 79 88	6 30 5 11 9 3 60 14 26 2	-40 -8 -2 -8 -7 (*)	40 11 30 -68 72 20 -8 45 85		
Carnda: 1962 1963 1964 1963 1966 1967 1969 1970	48 44 22 3 25 25 25 25 25 25 25 25 25 25 25 25 25	7 32 8 88 25 19 49 19 60 6	-4 -27 -7 -8 -125 -12 -17	40 228 24 -8 102 2 -58 159 159 188 79	+ 152 8 - 121 - 125 4 - 121 - 125 4 -	S.	-8 5 2 -124 15	77 -20 -21 -3 -2 -3 11 7	-5 20 48 41 -17 -73 167 161	24.748.544.824.824	77777	-8 -1 16 9 35 -21 -100 73 149 76	20 57 28 -16 53 -17 24 -21	(C)		16 11 12 17 17 17 17 17 17 17 17		
Europe: United Eingdorn: 1982: 1989:	######################################	20 20 21 11 12 10 50 11 10 50 11 10	1311111 1311111111	40 12 -04 -49 9 46 20 -19 85	() 207 1 4 6 6 8 2 6 8 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	64 7 408	-26 -1 -4	(*) -\$7 -19 -6 8 8 5 -45 29	7 -11 10 8 37 15 154 144	2 10 13 8 5 21 27 48 111	-8 -2 -2 -1 -1 -1	10 -19 -10 1 4 16 11 17 17	5 -7 -27 -17 19 19 18 40	1 8 1 22 4	-8	-8 -8 -18 -16 10 -5 2		
Netherlands: 1982 1983 1984 1984 1985 1988 1988 1988	-19 -33 -33 14 120 -10 -1	**************************************	-18 -	-20 -50 -10 & 48 12 30 94 -13	-24 -40 -87 -87 5 125 6	12 (*) 22 8		-24 -62 -82 -7 -12 -7 -12 -7	10128 10118 10118 10118 10118	1 2 8 8 50		8 -5 8 10 10 13 8 20 -12	22 -22 -35 -11 () -18	1 1 1 1		33 1 Substantes		
Switzenia Rdz 1962. 1968. 1965. 1965. 1960. 1967. 1968. 1968.		202.6 (*) 34 4 55 5	-67 -12 -13 -13	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-12 14 18 26 8 60 41 88 37 -87	20 20 20 4 56 88 6	-8 -2 (?) -3	-15 22 18 22 40 37 30 (*)	11	2		16 -3 -18 -18 5 9 11 19		
Other Etheraper* 1962. 1968. 1964. 1965. 1965. 1966. 1967. 1968. 1969. 1970.	6 6 50 41 110 -9 282 36	28 27 20 20 40 44 88 86 86	-1 -3 () -10 -93 -76	49 -20 -11 30 11 92 -67 27	(7) 2 9 13 14 24 90 6 -8			1 9 11 14 24 20 8	48 27 13 26 40 42 -18 190 76 80	12 29 19 12 32 38 31 140 95	1 10 28 76	24 -1 -9 15 7 27 27 27 27 27	233 10 77 69 78	1 ži	-11	1 -4 1 -1 3 -2 -16 0 4 18		
Janus 1962	24 -10 -38 30 -24 -2 80 -34 -1 -456	21 2 2 3 18 74 25	(f)	然 一 が 3.2 か - か - 一 - 一 - 一 - 一 - 一 - 一 - 一 - 一 - 一 - 一	-2 -2 1 1 (*)	(*)	*********	-1 -2 1 3	***************************************	(*)	**************************************	1100000000		1 (*)	(*)			
Other areas: 1942	3 -21 19 24 16 -6 -12 75 63 75		ල ⁷ ල	2 -14 17 21 18 -6 -12 5	-9 17 -9 (*) 31 -10			15 H	(*) -3 -6 -13 -16 -2 -4 -45 -66 -25	(*) 62 42 11	-2	(*) -1 -1 -18 -17 -17 -26 -14	2 1 5 (*) (*) -15 18 28 25	; ;	(e)	(*) (*) (*) 11 20 26		

[&]quot;Breinding United Kingdom, Natherlands, and Switzerland. See Soctions to table 2.

United States, Country by Industry Detail addors (-)!

Ī	OTION AS (Other is	ndtakde		
	Total	New in vest- ments	Liqui- dations	Inter- company accounts	Year
	06 -3 -42 -45 -38 -39 -44 -12 -657	5 35 20 15 83 45 74 108 18 22	-18 -19 -4 -1 -15 -15	79 -222 -57 -30 -41 -58 -60 -7	1962 1963 1964 1965 1966 1967 1968 1969 1977
	24 1 20 50 50 50 50 50 50 50 50 50 50 50 50 50	2 1 1 12 13 5	-10 -1	23 8 1 16 18 20 89 89 17	1942 1968 1964 1965 1965 1967 1968 1969 1970 1970
	7 23 -13 -13 -10 -0 -0 -0 -20	36 17 3 18 (*) (*) 69 3	-18 -19 -13 -14 -15 -1	25 27 11 15 19 12 29 29	1982 1988 1984 1985 1987 1988 1989 * 1970 * 1977
	-1 2 2 -3 47	47 17		7 2 3 4 5 16	1962 1968 1965 1965 1966 1967 1969 * 1970 * 1971
	10 11 11 11	14.	—is	-10 -5 5 -4 -1 -7 -1 (*) -1	1962 1968 1905 1905 1907 1907 1960 1969 7 1970 2 1971
	24 -16 -8 16 -5 -5 -20 13 -51 -5	8	-1	22 -15 -6 -7 -11 -54 -20 -81 -61	1962 1963 1964 1965 1967 1968 1969 • 1970 • 1971
	21 - 14 - 42 - 30 - 28 - 28 - 28 - 28 - 27	19 1 2 3 3 16 68 22 2 3		21 -38 -44 27 -29 -24 -36 -60 -8	1982 1984 1984 1985 1987 1946 1947 1970 2 1971
	-10 -12 -2 -2 -11 -34 -13	(°)	(*)	-15 -15 -25 -21 -12 -11 10	1963 1964 1964 1965 1966 1967 1968 1969 * 1970

Analytical framework

The dependent variable used is the annual change in the foreign direct investment position, denoted by ΔI . The size-of-market hypothesis is tested by relating ΔI to host country GNP, denoted by Y. GNP is thus assumed to adequately reflect the potential demand for an affiliate's output. The market-growth hypothesis is tested in two alternative ways, by relating ΔI to the absolute change in U.S. GNP (ΔY) and to the percentage rate of growth of U.S. GNP ($\Delta Y/Y$).

Because tariffs make a foreign country's exports less competitive with goods produced in the host country, it is frequently argued that high tariff levels encourage direct investment. However, the irreversible nature of many direct investments suggests that it may not be so much the current level but expected changes in the level of tariff which affect direct investment. Both forms of the hypothesis were examined.

The level of the U.S. tariff barrier is represented by the ratio

T=total tariff proceeds total value of dutiable imports

Another proxy used in other studies replaces the denominator of T by the total value of all imports.5 However, a ratio calculated that way could move. suggesting a change in the level of the tariff barrier, if there were simply a change in the dutiable-nondutiable composition of imports. This is not to suggest that the ratio T suffers from no conceptual difficulties. For example, T could move if there were a change in the composition of dutiable imports since tariff rates differ among commodity groups. In addition, T could fall as tariff barriers become high enough to be completely prohibitive; however, the other proxy is subject to this same criticism.

Expected changes in tariff barriers are represented by the annual change

in the ratio T, denoted by AT. This implies that firms use past experience in predicting the future—a common assumption in economic literature. While the relationship between △I and T should be positive (i.e., the two variables should move in the same direction), that between ΔI and ΔT may be either positive or inverse. If firms expect tariff levels to rise in the future because they rose in the past. the relationship between ΔI and ΔT would be positive. If, on the other hand, a rise in the level of tariffs was expected to be temporary and reversible (as with "temporary" surcharges), the relationship between ΔI and ΔT could be inverse.

Empirical results

A number of combinations and variants of the three hypotheses (size-ofmarket, market-growth, tariff-barrier) were tested by applying the ordinary least squares regression technique to annual data for the 1952-71 period. The most interesting results of these tests are summarized in table 7. Equations (1)-(4) each contain three explanatory variables representing different versions of the three hypotheses. Equations (5) and (6) test all three hypotheses but also examine the possibility that foreign direct investment in the United States is influenced by both the level of and expected changes in tariff barriers.

The size of the U.S. market (Y) was the only variable statistically significant (at the one percent level) in all equations and its coefficient always had the expected positive sign. However, there were relatively large fluctuations in the size of its coefficient among equations. All other coefficients whose signs could be theoretically specified were incorrectly signed (the sign of the coefficient of AT was left unspecified), but the only statistically significant coefficient for these other variables as indicated by the "t" ratio was that of the annual change in the size of the U.S. market (ΔY) in equation (3). However, the Durbin-Watson statistic for equation (3) indicates the presence of positive serial correlation; this imparts an upward bias to the "t" ratio (the measure of statistical sig-

^{5.} Seaperlands and Mauer employed neither of these proxies but instead used U.S. expects to the B.E.C. + expects from B.E.C. countries to other E.E.C. countries. The cyle of this ratio is based on the empurpulent that a higher E.E.C. tariE barrier for countries outside the E.E.C. will have the effect of decreading U.S. expects to the E.E.C. (the numerator of the ratio) will gingletheously increasing intra-area expects (the denominator).

Table ?.—Equations for Explaining Changes in the Value of Foreign Direct Investments in the United States: Annual Data, 1952-71

Equation	Con- stant	¥	ΔY	∆Y/¥	т	ΤΔ	SEE	SER;	R2	рw
L	974, 28 (0, 82)	1.54 **(3.04)	-6.56 (1.66)		-67.47 (1.12)		168.0	0.21	0,74	**1.44
2	1,458.26 (1,26)	1.04 **(3.18)		-21.76 (1.11)	-121.68 (1.36)		172.0	.22	.72	**1.62
8	-282.56 (2.62)	1.90 **(5.29)	-8.19 *(2.28)			-63, 15 (, 62)	144.0	.29	. 78	1.39
4	-117.84 (0.87)	1,87 (6,42)		-30, 80 (1, 64)		-60, 21 (, 65)	181.0	.34	.70	**1.66
5	876,88 (0.68)	1,55 **(2,95)	~6.58 (1.60)		-90.0 (.91)	-17,74 (.19)	171_0	.32	.73	1.45
6	1,280.22 (2,05)	1.05 (7.03)		-2). 84 (1.07)	-115.84 (1.15)	-14.24 (.14)	179. 0	.34	.70	**1.61

Norm.— \mathbb{R}^2 is the coefficient of determination corrected for degrees of freedom. Values in parentheses are t ratios , DW is the Durbin-Watson statistic, SEE is the standard arroy of estimate corrected for degrees of freedom (measured in millions of dollars).

Durun-Watson statistic, SEE is the standard error of estimate corrected for degrees of freedom (measured in millions of dollars), and SEE is SEE as a percentage of the average value of the dependent variable, as the each equation is all, the annual change in foreign direct investment in the United States (measured in millions of dollars). The independent variables Y, AY, AY, Y, T, and AT represent U.S. GNP, the annual change in U.S. GNP, the percentage change in U.S. GNP, the level of tariff barriers, respectively. The variables Y and AY are measured in billions of dollars.

The symbols * and ** above the tradict indicate that the regression coefficients are significantly different from zero at 5 percent and I percent confidence levels respectively.

The symbol ** above the Durbin-Watson statistics indicate that the null hypothesis of serial independence of the residuals cannot be rejected at the I percent level of significance. Tests of the Durbin-Watson statistic are based on the Thell-Nagar one-tailed testing procedure.

nificance) and thus may lead one to erroneously find a variable significant when it is not.

These results resemble those of the Scaperlanda and Mauer study of U.S. direct investment in the Common Market, in that only the size-ofmarket hypothesis can be supported. However, Scaperlanda and Mauer obtained coefficients of determination (\mathbb{R}^2) in the neighborhood of 0.95, while the values for the equations presented here cluster around 0.72. More importantly, the standard error of estimate for the equations presented here is consistently a much higher percentage of the average value of the dependent variable than was the case in the Scaperlands-Mauer work.

It should be noted that this is a relatively simple model of direct investors' behavior compared to the accelerator and neoclassical investment models employed in recent years. Most of these models, however, also rest on the notion that direct investment is related to the size of the market for the output of the direct investment firm.

Technical Note

The various components of the four measures of return on foreign direct investments presented in table 3 are defined below.

Item and definition

 Branch earnings (line A): The net earnings of U.S. branches of foreign companies after U.S. income taxes, but before depletion charges (except amortization of the actual costs of capital assets) and foreign taxes. Included in branch earnings are the foreign share in the net earnings of U.S. partnerships, sole proprietorships, and other types of unincorporated organizations.

2. Dividends (line B): Dividends on common or voting stock only, net of U.S. withholding taxes; dividends are included in income as balance of payments flow items.

 U.S. withholding taxes (line C): Taxes withheld on the payment of dividends (to be distinguished from income taxes imposed on the earnings of a business). Taxes are also withheld by the payor on interest and preferred dividends but both interest and preferred dividends are reported to BEA on a net basis and, therefore, our data on withholding taxes relate only to those on common stock dividends.

- Reinvested earnings (line D): The foreign parents' share in the net earnings of their U.S. corporations less gross dividends (before withholding taxes) on common stock.
- 5. Interest (line E): The net interest received on intercompany accounts or on long-term debt of foreign

owned U.S. affliates held by the parent or other nonbank foreign investors plus. preferred dividends—all after deduction of any U.S. withholding taxes. Interest is included in income as a balance of payments flow item.

6. Royalties and fees (line F): Net payments by U.S. affiliates to foreign direct investors (after withholding taxes) for the use of tangible property. intangible property or rights (patents. techniques, trademarks, copyrights. etc.), and for professional, administrative, and management services.

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on an accrual basis in both the budget and the NIA-are generally recorded in the budget at the time the checks are issued. The NIA records taxes paid by business in the time period in which the income is earned rather than at the time the taxes are paid. Personal income taxes are recorded at the time of payment. NIA receipts in 1974 exceed cash collections by \$1.7 billion.

The principal timing adjustment on the expenditure side is for purchases of goods and services. In the NIA, purchases from the private sector are. recorded mainly at the time of delivery to the Government. In 1974, deliveries exceed checks issued by \$0.3 billion.

Land transactions and miscellaneous adjustments

All purchases and sales of land are excluded from the Federal sector of the NIA. The NIA also excludes receipts from the sale of oil leases which offset expenditures in the unified budget. The sum of these items add \$1.9 billion to NIA expenditures in 1974.

There are a number of other differences between the two concepts, including certain foreign currency transactions, capital gains, other smaller timing adjustments, and several other items of lesser importance.